



ROTARY AIRLOCK VALVES & ACCESSORIES

FIND THE RIGHT AIRLOCK AND METERING SOLUTION FOR YOUR APPLICATION

Selecting the correct rotary airlock valve is key to maintaining a productive and reliable plant operation. Our experience in both pneumatic conveying systems and the manufacturing of rotary airlock valves, provides us with the engineering expertise to understand which type of rotary valves will best meet your airlock and metering needs. We make it our priority to understand your processes and your applications so we can confidently recommend the right solution that best addresses your material processing needs.

KEY CONSIDERATIONS FOR ROTARY AIRLOCK VALVE SELECTION

Selecting the right rotary airlock valve for your dry bulk material handling and pneumatic conveying systems is essential. Several key considerations need to be taken into account when selecting a rotary airlock valve:

- Type of bulk material being processed
- Type of application
- Operating temperature
- Level of abrasion resistance required
- Material density and moisture levels

WHY PARTNER WITH STT?

- We believe in partnerships
- We value our customer needs seriously
- We recommend the best solutions based on your needs and our technical expertise
- We believe in long-term relationships that bring value to both businesses
- We offer replacement products for a variety of manufacturers' equipment
- We work hard to make doing business with us easy
- We offer competitive pricing

ROTARY AIRLOCK VALVES

RV SERIES STANDARD ROTARY AIRLOCK VALVE - ROUND

The Standard Rotary Airlock Valve is ideal for the pneumatic conveying of dry, free flowing, non-cohesive bulk density products or powders. This round flange, drop-thru valve feeds material through the ten rotating vanes* where it drops out the bottom outlet flange via gravity. This outboard bearing rotary airlock valve achieves high fill efficiencies with minimum air leakage, due to precise machining and tight rotor clearances.

*Model RV-106 has five vanes due to its smaller size



RVS SERIES STANDARD ROTARY AIRLOCK VALVE - SQUARE

The Standard Rotary Airlock Valve is ideal for the pneumatic conveying of dry, free flowing, non-cohesive bulk density products or powders. This square flange, drop-thru valve feeds material through the six rotating vanes where it drops out the bottom outlet flange via gravity. This outboard bearing airlock (valve) achieves high fill efficiencies with minimum air leakage, due to precise machining and tight rotor clearances.



CV SERIES CONVEYING ROTARY AIRLOCK VALVE

The Conveying Rotary Airlock Valve is designed to handle most types of dry granulated materials including difficult, sticky products in pneumatic conveying systems with conveying pressure up to 15 psi. This outboard bearing airlock has ports on the sides of the end covers that connect directly to the convey line pipe. The design of the CV series rotary airlock valve is especially suited for low headroom installations and retrofit applications.



RVH SERIES HEAVY DUTY ROTARY AIRLOCK VALVE

The Heavy Duty Rotary Airlock Valve is designed and constructed for high volume service such as in petrochemical and mineral processing plants.



RVI SERIES ABRASIVE SERVICE ROTARY VALVE

The Abrasive Service Rotary Airlock Valve is precision made with a heavy duty cast body and rugged fabricated design. It is designed as a feeder valve for dry, bulk material in applications where close tolerances are necessary in demanding high pressure - high vacuum services. A bolted removable inspection panel and threaded plugs in both end plates allows for in-place serviceability of replacement blades.



PNEUMATIC CONVEYING DIVERTER VALVES

DB SERIES DIVERTER VALVE

The Diverter Valve is designed for use in pneumatic conveying applications for directing dry bulk materials from one source into two locations. It is manufactured from quality castings and precision machining, and contains an injection molded elastomer body sleeve. This sleeve provides a tight seal for a machined steel diverting blade, eliminating leakage.



SV SERIES SCALE DIVERTER VALVE

The Scale Diverter Valve is designed to divert dry bulk materials in pneumatic transit to hoppers, bins and silos without the use of piping bends and supports. Material is diverted into a receiving hopper while air continues into the return line back to the storage bin. This valve can be mounted directly on top of the vessel inlet nozzle.



GD SERIES GRAVITY FLOW DIVERTER VALVE

The Gravity Flow Diverter Valve is designed to divert material to one of two lines while in a gravity fall intersecting at an angle of 60°. The valve is fabricated with a bucket design so that when material is being fed through one leg of the valve there will be minimal dusting in the opposite leg.



ROTORS

SPECIAL ROTORS

Designed for a wide variety of materials and applications, our options include rotors with filled pockets, a scalloped design or a polished finish. Our abrasion resistant rotors include specialized hardened materials and rotors with replaceable and adjustable rotor tips made from materials such as Domite.



DON'T SEE THE PRODUCT YOU'RE LOOKING FOR?
ASK OUR EXPERTS. WE'RE HERE TO HELP.

ROTARY AIRLOCK VALVE REFURBISH AND REPAIR PROGRAM

Our Rotary Airlock Valve Refurbish and Repair Program is an easy way to determine whether you can refurbish your valve or whether it is more beneficial to purchase a new one to keep your processes operating efficiently. Our STT technicians will inspect your airlock or rotary valve for wear patterns and provide you with a detailed estimate of repair needs and costs. Upon approval from the user, the repairs are completed.

REFURBISH AND REBUILD SERVICE INCLUDES

- Re-machine castings
- Rebuild endplates and re-machine to OEM specifications
- Metalize or sleeve damaged rotor shafts
- Weld and re-machine rotor tips and ends to exacting standards
- Install new bearings, seals and packing
- Re-assemble unit to new tolerances
- Rebuild mechanical or air purge seals
- Replace shaft blades
- Restore equipment using OEM parts
- Replace wear components
- Harden facings on rotor and shaft
- Sandblast old paint or oxidation
- Paint
- Re-anodize
- 12-month warranty

ON-SITE INSTALLATION

Installation services are available to ensure your rotary airlock valves get installed correctly, safely and on time.



AFTERMARKET SERVICE AND SUPPORT:

You can trust STT to keep your system running at peak performance. Through spare parts, replacement components, upgrades, automated controls, system audits or training, STT is your reliable source throughout your system's life.

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LET US HELP PROVIDE A SOLUTION FOR YOUR NEEDS.

For over 50 years, STT has been designing and installing lime slaking and bulk material handling systems. What makes STT different is our diverse experience in many applications, industries and chemicals, along with the ability to support systems from concept through to decommissioning, and everything in between. To speak with one of our experts, contact us at:

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